



Percent Composition of an Egg

Topical Unit of Instruction: The Mole-Percent Composition

Teacher's Edition

Rehab
the LAB

Introduction

No toxic chemicals are used in this lab.

Time

50 minutes

Objectives

1. To determine the % composition of an egg.
2. To use previously learned math concept in science.
3. To figure out lab procedure with minimal teacher input.

Preparation

None necessary!!!

Safety Reminders

Most students will probably choose to do the lab with the raw egg. Remind them about Salmonella risk and insist on thorough hand washing when they are finished, preferably with an anti-bacterial soap. Also, ask them to keep their hands away from their faces as they perform the lab.

Disposal

Set out large containers for collection of egg parts (shells too!). Put everything down the garbage disposal in the home and family department. If your science department has a dishwasher, run all containers used by students through dishwasher. If no dishwasher is available, carefully and thoroughly wash containers by hand.

Hint

Encourage students to separate yolk from white with great caution if they choose to use a raw egg. Purchase a few extra eggs, just in case student inexperience results in some broken yolks.

Special thanks to Kathee Terry, Science Curriculum Developer K-12, Bellevue School District, for suggesting this lab idea.

Materials

(For a class of 32 students working in pairs)

- 16 eggs
- 16 balances
- 50 (or so) containers (some beakers)
- hot plates

